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PAPER NUMBER

PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	_
10/733,491	12/10/2003	Jun Yamaguchi	03740/LH	7688	
1933	7590 10/04/2004		EXAM	INER	_
FRISHAUF, HOLTZ, GOODMAN & CHICK, PC 767 THIRD AVENUE			LAUCHMAN, LAYLA G		
767 THIRD	AVENUE				_

2877

DATE MAILED: 10/04/2004

ART UNIT

Please find below and/or attached an Office communication concerning this application or proceeding.

			Ale
	Application No.	Applicant(s)	
	10/733,491	YAMAGUCHI ET A	L.
Office Action Summary	Examiner	Art Unit	
	L. G. Lauchman	2877	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence add	Iress
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by staff Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thir od will apply and will expire SIX (6) MON tute, cause the application to become Al	reply be timely filed rly (30) days will be considered timely. NTHS from the mailing date of this cor BANDONED (35 U.S.C. § 133).	mmunication.
Status			
1) Responsive to communication(s) filed on	-		
' =	his action is non-final.	4	
 Since this application is in condition for allow closed in accordance with the practice unde 	•	· •	ments is
·	Ex parte Quayle, 1955 C.L	7. 11, 455 O.G. 215.	
Disposition of Claims			
4) Claim(s) <u>1-10</u> is/are pending in the application			
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-10</u> is/are rejected.			
7) Claim(s) is/are objected to.	d/on alogation requirement		
8) Claim(s) are subject to restriction and	a/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exami			
10)☐ The drawing(s) filed on is/are: a)☐ a	ccepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the	***		
Replacement drawing sheet(s) including the correction	·	•	• •
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTG	D-152 .
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority 	ents have been received. ents have been received in A riority documents have been	Application No	Stage
application from the International Bure	, , , , , , , , , , , , , , , , , , , ,		
* See the attached detailed Office action for a li	ist of the certified copies not	received.	
Attachment(s)	_		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date <u>8/2004</u>. 		Informal Patent Application (PTO	-152)
	•		

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DETAILED ACTION

The preliminary amendment filed 12/10/2003 has been entered.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carr et al (US 4,927,268), and further in view of Schulz et al (US 5,513,006).

Carr teaches a system fro optical analysis of particles (see col. 3, lines 44–68, col. 2, lines 1-60) that convergently irradiates two specific wavelengths onto a sample using a converging lens 12, passing through a thermal lens generated by convergent radiation of the exciting light, comprising an optical fiber 10 for guiding the two specific wavelengths to the converging lens. The patent does not specifically calls the wavelengths as exciting and detecting light; however, it mentions that the wavelengths could be introduced into the fiber by a suitable fiber coupler (see col. 3, lines 45-57). Schulz teaches a photo-thermal sensor for determining the concentration of a sample

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by using an excitation light 4 and a probe light 3 for producing the light 21 (emitted by the excitation light source) and light 20 (emitted by the probe light source) (see Fig. 2). It would have been obvious to have two different light sources on the invention of Carr, since the two light sources would have produced two different wavelengths, as it is desired in the Carr's invention. The converging lens in the Carr's invention is a gradient index lens; the two wavelengths passing through the converging lens have different focal positions. Carr does not disclose moving means for moving the optical fiber, however it would have been obvious to move the fiber in order to measure the sample at different locations and make the measurements more efficient.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hiraga et al teach an optical method and control. Morris et al teach a photothermal desintometer.

Papers related to this application may be submitted to Technology Center 2800 by facsimile transmission. Papers should be faxed to TC 2877 via the PTO Fax Center located in CP4-4C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CP4 Fax Center number is (703) 872-9306.

If the Applicant wishes to send a Fax dealing with either a Proposed Amendment or for discussion for a phone interview then the fax should:

- a) Contain either the statement "DRAFT" or "PROPOSED AMENDMENT" on the Fax Cover Sheet; and
- b) Should be unsigned by the attorney or agent.

 This will ensure that it will not be entered into the case and will be forwarded to the examiner as quickly as possible.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to L. G. Lauchman whose telephone number is (571) 272-

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2418. The examiner's normal work schedule is 8:00am to 4:30pm (EST), Monday through Friday. If attempts to reach examiner by the telephone are unsuccessful, the examiner's supervisor Gregory J. Toatley, Jr. can be reached on (571) 272-2059, ext. 77.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC receptionist whose telephone number is (571) 272-1562.

L. G. Lauchman' Patent Examiner Art Unit 2877

September 22, 2004